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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A01K 67/027, C07K 16/00, 16/24, 16/28 // C12N 15/85, 15/90

A3

(11) International Publication Number: WO 98/24893

(43) International Publication Date: 11 June 1998 (11.06.98)

(21) International Application Number: PCT/US97/23091

(22) International Filing Date: 3 December 1997 (03.12.97)

(30) Priority Data:
08/759,620 3 December 1996 (03.12.96) US

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(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report:
20 August 1998 (20.08.98)

29

(54) Title: TRANSGENIC MAMMALS HAVING HUMAN IG LOCI INCLUDING PLURAL V_H AND $V\kappa$ REGIONS AND ANTIBODIES PRODUCED THEREFROM

(57) Abstract

The present invention relates to transgenic non–human animals that are engineered to contain human immunoglobulin gene loci. In particular, animals in accordance with the invention possess human Ig loci that include plural variable (V_H and $V\kappa$) gene regions. Advantageously, the inclusion of plural variable region genes enhances the specificity and diversity of human antibodies produced by the animal. Further, the inclusion of such regions enhances and reconstitutes B–cell development to the animals, such that the animals possess abundant mature B–cells secreting extremely high affinity antibodies.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 97/23091

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A01K67/027 C07K16/00 C07K16/24 C07K16/28 //C12N15/85, C12N15/90

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A01K C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	A. JAKOBOVITS ET AL., : "Production of antigen-specific human antibodies from mice engineered with human heavy and light chain YACs" ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, vol. 764, 1995, NEW YORK, NY, US, pages 525-535, XP002067728 see the whole document but specially pages 533-534 --- -/--	1-16

[X] Further documents are listed in the continuation of box C.

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Date of the actual completion of the international search	Date of mailing of the international search report
12 June 1998	25/06/1998

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Mateo Rosell, A.M.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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